



200 West Mercer St. ■ Suite 401 ■ Seattle, WA 98119  
Phone: 206.378.1364 ■ Fax: 206.217.0089 ■ www.windwardenv.com

December 17, 2013

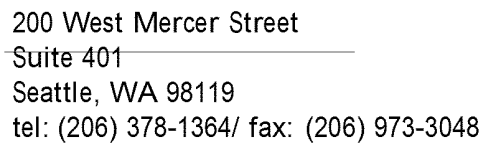
de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Dear Willard,  
Please find our invoice #1113 for Professional Time Rendered from November 1, 2013 to November 30, 2013 for The Passaic RI/FS project.

Task	Amount
Task 11 - Meetings and Communications	635.08
Task 16.4 Database Coordination	475.86
Task 18.2 Benthic Lab Coordination	40.56
Task 18.8.3 Database Coordination	832.76
Task 26 CPG Strategic Support	5,477.80
Task 30.3 Follow-up fr June27 Bkgrd Mgt	1,038.24
Task 32.2 Bioaccumulation Model	13,540.83
Task 36.1 Screening Assessment TRV Eval	519.12
Task 39.2 Bckgrd-Ref Benthic Sed Lab Coord	757.05
Task 39.4 Background Sediment Chem Rpt	48.25
Task 40.3 Bckgrd Tissue Lab Coordination	629.98
Task 40.4 Bckgrd Tissue Database Coordina	1,130.17
Task 41 Targeted Remedy Support	346.08
Task 42 LPRSA Survey Summary	470.45
Task 43 Review NBSA PFD	2,893.02
Task 45.0 BERA Technical Approach	5,726.95
Task 45.2 Problem Formulation	1,633.07
Task 45.3 Benthic Assessment	52,747.46
Task 45.4 Plant/amphib/r rept Assessment	5,388.58
Task 45.5 Fish Assessment	18,050.25
Task 45.6 Wildlife Assessment	2,663.20
Task 45.7 Uncertainty Evaluation	15,076.92
Task 45.8 Report Preparation	49,640.14
Task 47 FS Support	4,266.53
Task 48 RI Support	692.16
	<b>\$ 184,720.51</b>

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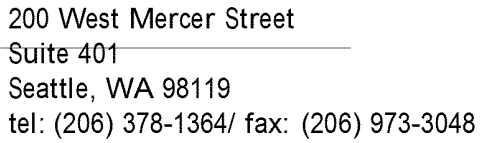


Invoice Date: 11/ 30/ 2013

Invoice Number: 12035

Passaic RI/ FS  
Willard Potter  
186 Center Street Suite 290  
Clinton, NJ 08809

<b>Total</b>	<b>\$635.08</b>
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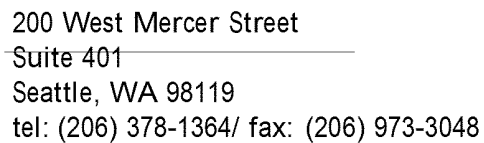


## Invoice Date: 11/ 30/ 2013

Invoice Number: 12036

Passaic RI/ FS  
Willard Potter  
186 Center Street Suite 290  
Clinton, NJ 08809

<b>Total</b>	<b>\$475.86</b>
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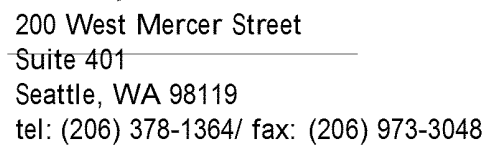


Invoice Date: 11/ 30/ 2013

Invoice Number: 12037

Passaic RI/ FS  
Willard Potter  
186 Center Street Suite 290  
Clinton, NJ 08809

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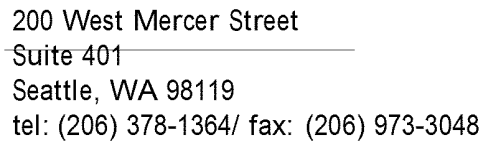


Invoice Date: 11/ 30/ 2013

Invoice Number: 12038

de maximis, inc.  
Willard Potter  
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Clinton, New Jersey 08809

<b>Total</b>	<b>\$832.76</b>
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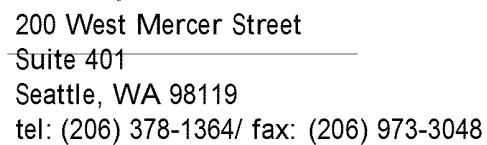


Invoice Date: 11/ 30/ 2013

Invoice Number: 12039

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

<b>Total</b>	<b>\$5,477.80</b>
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Invoice Number: 12040

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
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<b>Total</b>	<b>\$1,038.24</b>
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## Task 32.2 Bioaccumulation Model

Invoice Date: 11/ 30/ 2013  
 Invoice Number: 12041

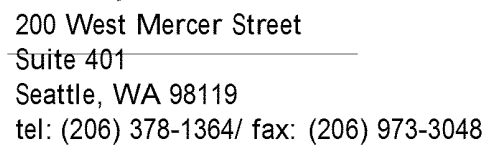
### Bill To

de maximis, inc.  
 Willard Potter  
 186 Center Street Suite 290  
 Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Nate Lewis	25.25	115.50	2,916.38
John Toll	50.25	168.00	8,442.00
Brian Church	0.25	115.50	28.88
Kim Goffman	2	115.50	231.00
Nancy Judd	1.75	157.50	275.63
Subtotal			11,893.89
Markup 3%		3.00%	356.82
Total Labor			12,250.71
 COSTS			
Travel (BOA11/ 15/ 13)		471.90	471.90
Travel (BOA11/ 15/ 13)		65.60	65.60
Travel (BOA11/ 15/ 13)		8.25	8.25
Travel (BOA11/ 15/ 13)		39.50	39.50
Travel (BOA11/ 15/ 13)		7.50	7.50
Travel (BOA11/ 15/ 13)		63.37	63.37
Total Costs			656.12
 PER DIEM			
John Toll		634.00	634.00

**Total** \$13,540.83



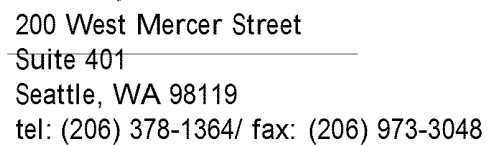


Invoice Date: 11/ 30/ 2013

Invoice Number: 12042

de maximis, inc.  
Willard Potter  
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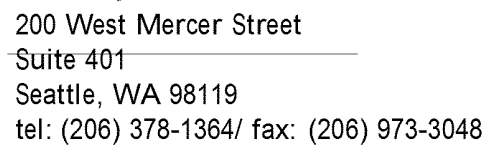
<b>Total</b>	<b>\$519.12</b>
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Invoice Number: 12043

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

<b>Total</b>	<b>\$757.05</b>
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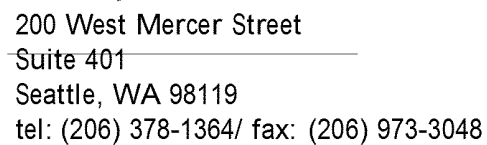


Invoice Date: 11/ 30/ 2013

Invoice Number: 12044

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

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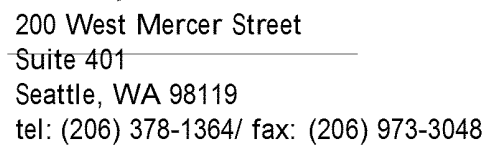


Invoice Date: 11/ 30/ 2013

Invoice Number: 12045

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
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<b>Total</b>	<b>\$629.98</b>
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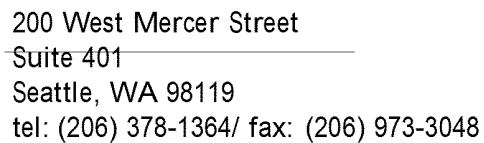


Invoice Date: 11/ 30/ 2013

Invoice Number: 12046

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
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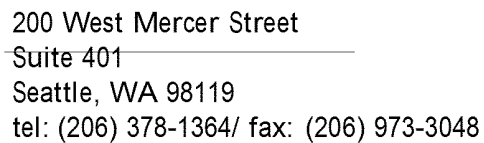


Invoice Date: 11/ 30/ 2013

Invoice Number: 12047

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
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<b>Total</b>	<b>\$346.08</b>
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Invoice Date: 11/ 30/ 2013

Invoice Number: 12048

de maximis, inc.  
Willard Potter  
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<b>Total</b>	<b>\$470.45</b>
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## Task 43 Review NBSA PFD

Invoice Date: 11/ 30/ 2013  
Invoice Number: 12049

### Bill To

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Lisa Saban	8	168.00	1,344.00
Jennifer Parker	6.5	157.50	1,023.75
Kim Goffman	0.75	115.50	86.63
Shannon Katka	1	157.50	157.50
Karen Tobiason	1.25	157.50	196.88
Subtotal			2,808.76
Markup 3%		3.00%	84.26
Total Labor			2,893.02

**Total** \$2,893.02





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## Task 45.0 BERA Technical Approach

Invoice Date: 11/ 30/ 2013

Invoice Number: 12050

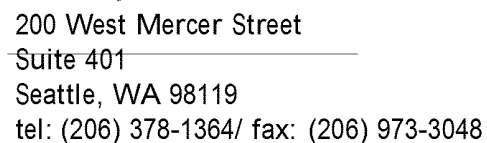
### Bill To

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Lisa Saban	46	168.00	7,728.00
Siobhan Sloan-Evans	3	115.50	346.50
Mike Johns	2	178.50	357.00
Berit Bergquist	1.5	157.50	236.25
Subtotal			8,667.75
Markup 3%		3.00%	260.03
Total Labor			8,927.78
 COSTS			
Communicaton (ATConference611179-1013)		70.77	70.77
Travel (BOA11/ 15/ 13)		-3,271.60	-3,271.60
Total Costs			-3,200.83

**Total**

**\$5,726.95**



Invoice Date: 11/ 30/ 2013

Invoice Number: 12051

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

FOIA\_07123\_0000872\_0018



200 West Mercer Street  
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# Task 45.3 Benthic Assessment

Invoice Date: 11/ 30/ 2013  
 Invoice Number: 12052

## Bill To

de maximis, inc.  
 Willard Potter  
 186 Center Street Suite 290  
 Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Brian Church	152	115.50	17,556.00
Kim Goffman	19.5	115.50	2,252.25
Mike Johns	25	178.50	4,462.50
Marcy McAuliffe	4	115.50	462.00
Jennifer Parker	1	157.50	157.50
Siobhan Sloan-Evans	14.5	115.50	1,674.75
Karen Tobiason	70.25	157.50	11,064.38
Lucinda Tear	38.5	157.50	6,063.75
Rocky Wells	9.5	115.50	1,097.25
Linda Marsh	9	94.50	850.50
Shannon Katka	1.5	157.50	236.25
Thai Do	24	115.50	2,772.00
Berit Bergquist	2.5	157.50	393.75
Shana Schorsch	3.5	94.50	330.75
Lisa Saban	10	168.00	1,680.00
Ron Gouguet	1	157.50	157.50
Subtotal			51,211.13
Markup 3%		3.00%	1,536.33
Total Labor			52,747.46

**Total** \$52,747.46



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## Task 45.4 Plant/ amphib/ rept Assessment

Invoice Date: 11/ 30/ 2013

Invoice Number: 12053

### Bill To

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Siobhan Sloan-Evans	38.5	115.50	4,446.75
Shannon Katka	3	157.50	472.50
Shana Schorsch	3	94.50	283.50
Kim Galimanis	0.25	115.50	28.88
Subtotal			5,231.63
Markup 3%		3.00%	156.95
Total Labor			5,388.58

**Total**

**\$5,388.58**



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## Task 45.5 Fish Assessment

Invoice Date: 11/ 30/ 2013

Invoice Number: 12054

### Bill To

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
David DeForest	3	157.50	472.50
Shannon Katka	14.25	157.50	2,244.38
Siobhan Sloan-Evans	40.75	115.50	4,706.63
Lucinda Tear	30	157.50	4,725.00
Rocky Wells	1	115.50	115.50
Lisa Saban	21	168.00	3,528.00
Thai Do	15	115.50	1,732.50
Subtotal			17,524.51
Markup 3%		3.00%	525.74
Total Labor			18,050.25

**Total**

**\$18,050.25**



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## Task 45.6 Wildlife Assessment

Invoice Date: 11/ 30/ 2013

Invoice Number: 12055

### Bill To

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Shannon Katka	1.5	157.50	236.25
Lisa Saban	5	168.00	840.00
Linda Marsh	8	94.50	756.00
Shana Schorsch	2.25	94.50	212.63
Siobhan Sloan-Evans	1	115.50	115.50
Mike Yarnes	4.5	94.50	425.25
Subtotal			2,585.63
Markup 3%		3.00%	77.57
Total Labor			2,663.20

**Total**

\$2,663.20



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Suite 401  
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## Task 45.7 Uncertainty Evaluation

Invoice Date: 11/ 30/ 2013

Invoice Number: 12056

### Bill To

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Berit Bergquist	25.5	157.50	4,016.25
Suzanne Replinger	44.5	115.50	5,139.75
Matt Luxon	31.75	157.50	5,000.63
Lisa Saban	1	168.00	168.00
Subtotal			14,324.63
Markup 3%		3.00%	429.74
Total Labor			14,754.37
 COSTS			
Supplies (BOA11/ 15/ 13)		35.00	35.00
Supplies (BOA11/ 15/ 13)		26.00	26.00
Supplies (BOA11/ 15/ 13)		42.55	42.55
Supplies (UWInvoice#LIB004866)		219.00	219.00
Total Costs			322.55

**Total**

**\$15,076.92**



200 West Mercer Street  
Suite 401  
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## Task 45.8 Report Preparation

Invoice Date: 11/ 30/ 2013

Invoice Number: 12057

### Bill To

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Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Berit Bergquist	86.5	157.50	13,623.75
Shannon Katka	30.5	157.50	4,803.75
Jennifer Parker	15.5	157.50	2,441.25
Siobhan Sloan-Evans	30.5	115.50	3,522.75
David DeForest	7	157.50	1,102.50
Thai Do	84	115.50	9,702.00
Craig Hanson	43.5	115.50	5,024.25
Shana Schorsch	2.5	94.50	236.25
Linda Cognato	19	115.50	2,194.50
Mike Yarnes	51.5	94.50	4,866.75
Marcy McAuliffe	1	115.50	115.50
Rocky Wells	4.5	115.50	519.75
Subtotal			48,153.00
Markup 3%		3.00%	1,444.59
Total Labor			49,597.59
 COSTS			
Supplies (BOA11/ 15/ 13)		42.55	42.55

**Total**

**\$49,640.14**





200 West Mercer Street  
Suite 401  
Seattle, WA 98119  
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## Task 47 FS Support

Invoice Date: 11/ 30/ 2013

Invoice Number: 12058

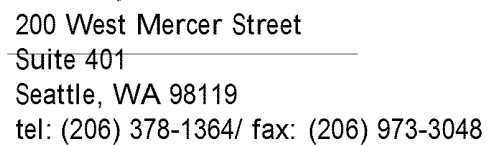
### Bill To

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Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

Description	Units	Rate	Amount
LABOR from November 1, 2013 to November 30, 2013			
Siobhan Sloan-Evans	1	115.50	115.50
Berit Bergquist	1.25	157.50	196.88
Lisa Saban	18	168.00	3,024.00
Linda Marsh	5	94.50	472.50
Shannon Katka	1.75	157.50	275.63
Linda Cognato	0.5	115.50	57.75
Subtotal			4,142.26
Markup 3%		3.00%	124.27
Total Labor			4,266.53

**Total**

**\$4,266.53**



Invoice Date: 11/ 30/ 2013

Invoice Number: 12059

de maximis, inc.  
Willard Potter  
186 Center Street Suite 290  
Clinton, New Jersey 08809

<b>Total</b>	<b>\$692.16</b>
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# Passaic Labor Report

## Task 11 - Meetings and Communications

Chris Nelson

Date	Hours	Rate	Extended	Notes
11/7/2013	1.50	115.50	\$173.25	Assisting Lisa with budgets.
11/11/2013	0.50	115.50	\$57.75	Assisting Lisa with budgets.
11/12/2013	0.25	115.50	\$28.88	Assisting Lisa with budgets.
11/13/2013	0.75	115.50	\$86.63	Assisting Lisa with budgets.
11/15/2013	1.00	115.50	\$115.50	Assisting Lisa with Budgets
11/21/2013	0.50	115.50	\$57.75	Assisting Lisa with budgets.
11/22/2013	0.25	115.50	\$28.88	Assisting Lisa with budgets.
Summary for Chris Nelson		4.75	\$548.63	

**Summary for Task 11 - Meetings and Communications**  
**4.75 \$548.63**

## Task 16.4 Database Coordination

Kim Goffman

Date	Hours	Rate	Extended	Notes
11/13/2013	1.50	115.50	\$173.25	Provide summary statistics per user request.
11/22/2013	2.50	115.50	\$288.75	Export tissue chemistry datasets per user request.
Summary for Kim Goffman		4.00	\$462.00	

**Summary for Task 16.4 Database Coordination**  
**4.00 \$462.00**

## Task 18.2 Benthic Lab Coordination

Karen Tobiason

Date	Hours	Rate	Extended	Notes
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11/11/2013	0.25	157.50	\$39.38	Review and approve sample storage invoice, communicate with lab.
Summary for Karen Tobiason				
	0.25		\$39.38	
<b>Summary for Task 18.2 Benthic Lab Coordination</b>				
	<b>0.25</b>		<b>\$39.38</b>	

## Task 18.8.3 Database Coordination

### Kim Goffman

Date	Hours	Rate	Extended	Notes
11/12/2013	2.50	115.50	\$288.75	Respond to benthic data request. Respond to AECOM question re: treatment of benzo(a)fluoranthene isomers.
11/20/2013	1.50	115.50	\$173.25	Revise sediment tables to incorporate coelution data.
11/22/2013	3.00	115.50	\$346.50	Calculate reliability measures for benthic dataset.
Summary for Kim Goffman				
	7.00		\$808.50	
<b>Summary for Task 18.8.3 Database Coordination</b>				
	<b>7.00</b>		<b>\$808.50</b>	

## Task 26 CPG Strategic Support

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/13/2013	2.00	168.00	\$336.00	review latest setac presentation and discuss talking points with mike
11/21/2013	1.00	168.00	\$168.00	go over talking points and take home messages with mike on setac benthic csm talk.
Summary for Lisa Saban				
	3.00		\$504.00	

### Mike Johns

Date	Hours	Rate	Extended	Notes
11/18/2013	6.00	178.50	\$1,071.00	Attending SETAC meeting; attended poster and platform sessions throughout the week that pertained to issues related to contaminated sediment and risk to benthic community and other receptors
11/19/2013	6.00	178.50	\$1,071.00	Attended SETAC meeting and continued to attend platform and posters appropriate to LPRSA
11/20/2013	6.00	178.50	\$1,071.00	Continued to attend platform and posters at SETAC relevant to LPRSA

11/21/2013	6.00	178.50	\$1,071.00	Presented platform paper on LPRSA data and analysis attended session on multui-contaminated sites
11/27/2013	2.00	178.50	\$357.00	Reviewing material obtained from SETAC on alternative methods for analysis of WOE for ecological risk assessment
Summary for Mike Johns				
	26.00		\$4,641.00	

### Suzanne Replinger

Date	Hours	Rate	Extended	Notes
11/1/2013	1.50	115.50	\$173.25	refinements to mink/otter sensitivity analysis
Summary for Suzanne Replinger				
	1.50		\$173.25	
<b>Summary for Task 26 CPG Strategic Support</b>				
	<b>30.50</b>		<b>\$5,318.25</b>	

## Task 30.3 Follow-up fr June27 Bkgrd Mgt

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/12/2013	4.00	168.00	\$672.00	working on overall background stats questions and approach with lucinda.
11/13/2013	2.00	168.00	\$336.00	wrapping up overall approach.
Summary for Lisa Saban				
	6.00		\$1,008.00	
<b>Summary for Task 30.3 Follow-up fr June27 Bkgrd Mgt</b>				
	<b>6.00</b>		<b>\$1,008.00</b>	

## Task 32.2 Bioaccumulation Model

### Brian Church

Date	Hours	Rate	Extended	Notes
11/1/2013	0.25	115.50	\$28.88	Internal discussion with Windward staff concerning potential impacts of urbanization on the FWM for the LPRSA
Summary for Brian Church				
	0.25		\$28.88	

**John Toll**

Date	Hours	Rate	Extended	Notes
11/1/2013	4.75	168.00	\$798.00	Producing new round of long-range projections, preparations for TC
11/4/2013	8.00	168.00	\$1,344.00	Bioaccumulation modeling projections, 2013-14 modeling program deliverables/schedule, preparation for CPG meetings
11/5/2013	8.00	168.00	\$1,344.00	Critically evaluated CFT output files used as bioaccumulation modeling inputs, prepared and sent comments to AQ, prepared presentation for TC meeting
11/6/2013	8.00	168.00	\$1,344.00	TC meeting
11/7/2013	8.00	168.00	\$1,344.00	FSSC Meeting
11/11/2013	6.50	168.00	\$1,092.00	Produced and submitted draft presentation for 14 Nov EPA-CPG modeling meeting
11/14/2013	6.00	168.00	\$1,008.00	EPA-CPG modeling meeting
11/21/2013	1.00	168.00	\$168.00	Fielded questions about risk projection inputs
Summary for John Toll				
	50.25		\$8,442.00	

**Kim Goffman**

Date	Hours	Rate	Extended	Notes
11/6/2013	2.00	115.50	\$231.00	Download and compile surface water datasets for bioaccum use.
Summary for Kim Goffman				
	2.00		\$231.00	

**Nancy Judd**

Date	Hours	Rate	Extended	Notes
11/7/2013	1.75	157.50	\$275.63	Pull slides for LPR FWM presentation to EPA Nov 14
Summary for Nancy Judd				
	1.75		\$275.63	

**Nate Lewis**

Date	Hours	Rate	Extended	Notes
11/1/2013	5.00	115.50	\$577.50	Running FWM with new 5- and 10-layer projections
11/2/2013	5.00	115.50	\$577.50	Running FWM with new 5- and 10-layer projections
11/4/2013	8.00	115.50	\$924.00	Running FWM with new 5- and 10-layer projections
11/5/2013	5.25	115.50	\$606.38	Running FWM with new 5- and 10-layer projections
11/6/2013	2.00	115.50	\$231.00	Running FWM with new 5- and 10-layer projections
Summary for Nate Lewis				
	25.25		\$2,916.38	

**Summary for Task 32.2 Bioaccumulation Model****79.50****\$11,893.88****Task 36.1 Screening Assessment TRV Eval****Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/13/2013	3.00	168.00	\$504.00	review initial TRVs
Summary for Lisa Saban				
	3.00		\$504.00	
Summary for Task 36.1 Screening Assessment TRV Eval				
	3.00		\$504.00	

**Task 39.2 Bckgrd-Ref Benthic Sed Lab Coord****Jennifer Parker**

Date	Hours	Rate	Extended	Notes
11/21/2013	0.50	157.50	\$78.75	Reviewed invoices and created preliminary storage fee summary.
11/22/2013	1.00	157.50	\$157.50	Finalized storage fee summary and sent to dmi. Addressed AECOM's questions about TPH.
Summary for Jennifer Parker				
	1.50		\$236.25	

**Karen Tobiason**

Date	Hours	Rate	Extended	Notes
11/11/2013	0.25	157.50	\$39.38	Review and approve sample storage invoice.
11/22/2013	0.25	157.50	\$39.38	Review invoices
Summary for Karen Tobiason				
	0.50		\$78.75	

**Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/14/2013	2.50	168.00	\$420.00	reviewing lab results for discussion with jenn
Summary for Lisa Saban				
	2.50		\$420.00	
Summary for Task 39.2 Bckgrd-Ref Benthic Sed Lab Coord				
	4.50		\$735.00	

## Task 40.3 Bckgrd Tissue Lab Coordination

### Jennifer Parker

Date	Hours	Rate	Extended	Notes
11/1/2013	1.00	157.50	\$157.50	Call with Alpha to discuss fish disposal.
11/7/2013	0.25	157.50	\$39.38	Provided dmi and Peter Brussock with summary of validation protocols for LPRSA.
11/13/2013	0.50	157.50	\$78.75	Reviewing AECOM's question regarding mercury analysis and uncertainty, review method QC limits, and provided response to PM and AECOM.
Summary for Jennifer Parker				
	1.75		\$275.63	

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/14/2013	2.00	168.00	\$336.00	research tissue lab issue.
Summary for Lisa Saban				
	2.00		\$336.00	
Summary for Task 40.3 Bckgrd Tissue Lab Coordination				
	3.75		\$611.63	

## Task 40.4 Bckgrd Tissue Database Coordina

### Kim Goffman

Date	Hours	Rate	Extended	Notes
11/15/2013	3.00	115.50	\$346.50	Set up queries for BERA appendix data tables. Export summary stats for UCL EPCs.
Summary for Kim Goffman				
	3.00		\$346.50	

### Rocky Wells

Date	Hours	Rate	Extended	Notes
11/18/2013	2.25	115.50	\$259.88	Export cross-tabbed datasets per user request
11/19/2013	2.75	115.50	\$317.63	Export cross-tabbed datasets per user request
11/20/2013	1.50	115.50	\$173.25	Export cross-tabbed datasets per user request
Summary for Rocky Wells				
	6.50		\$750.75	



Summary for Task 40.4 Bckgrd Tissue Database Coordina  
**9.50** **\$1,097.25**

## Task 41 Targeted Remedy Support

**Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/21/2013	2.00	168.00	\$336.00	go over new targeted remedy areas w marcia
Summary for Lisa Saban				
	2.00		\$336.00	
Summary for Task 41 Targeted Remedy Support				
	<b>2.00</b>		<b>\$336.00</b>	

## Task 42 LPRSA Survey Summary

**Linda Cognato**

Date	Hours	Rate	Extended	Notes
11/12/2013	1.00	115.50	\$115.50	troubleshooting of CSM figure issue
11/13/2013	1.00	115.50	\$115.50	Resolution of CSM figure issue
11/14/2013	0.50	115.50	\$57.75	Review of revised CSM figures
Summary for Linda Cognato				
	2.50		\$288.75	

**Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/12/2013	1.00	168.00	\$168.00	coordinating with anchor on errors found in site-wide csm.
Summary for Lisa Saban				
	1.00		\$168.00	
Summary for Task 42 LPRSA Survey Summary				
	<b>3.50</b>		<b>\$456.75</b>	

## Task 43 Review NBSA PFD

**Jennifer Parker**

Date	Hours	Rate	Extended	Notes
11/4/2013	3.50	157.50	\$551.25	Review of QAPP specifically regarding analytical methods, detection limits and validation. Provided feedback to PM.
11/18/2013	3.00	157.50	\$472.50	Reviewed NBSA QAPP specifically for differences compared to WW LPRSA QAPPs. Provided additional feedback to PM.
Summary for Jennifer Parker	6.50		\$1,023.75	

**Karen Tobiason**

Date	Hours	Rate	Extended	Notes
11/5/2013	1.25	157.50	\$196.88	Review QAPP to evaluate sampling methods, provide summary of approach and differences from CPG methodology.
Summary for Karen Tobiason	1.25		\$196.88	

**Kim Goffman**

Date	Hours	Rate	Extended	Notes
11/5/2013	0.75	115.50	\$86.63	Review Tierra QAPP.
Summary for Kim Goffman	0.75		\$86.63	

**Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/3/2013	4.00	168.00	\$672.00	compile notes and review cmts on NBSA clam-crab qapp
11/19/2013	4.00	168.00	\$672.00	wrap up crab-clam tissue qapp review cmts and send to rob.
Summary for Lisa Saban	8.00		\$1,344.00	

**Shannon Katka**

Date	Hours	Rate	Extended	Notes
11/5/2013	1.00	157.50	\$157.50	review of Newark Bay tissue QAPP and provide comments on differences to the LPRSA sampling programs
Summary for Shannon Katka	1.00		\$157.50	

**Summary for Task 43 Review NBSA PFD****17.50****\$2,808.75****Task 45.0 BERA Technical Approach****Berit Bergquist**

Date	Hours	Rate	Extended	Notes
11/26/2013	1.50	157.50	\$236.25	meet to discuss tasks and progress on BERA
Summary for Berit Bergquist	1.50		\$236.25	

**Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/1/2013	2.00	168.00	\$336.00	prep for next weeks mgt
11/5/2013	4.00	168.00	\$672.00	prepare for mgts this week
11/6/2013	8.00	168.00	\$1,344.00	prepare for and attend TC mgt
11/7/2013	8.00	168.00	\$1,344.00	prepare for and attend FSSC mgt
11/8/2013	4.00	168.00	\$672.00	go over technical direction on bera tasks.
11/8/2013	4.00	168.00	\$672.00	review budgets and tracking BERA
11/11/2013	2.00	168.00	\$336.00	working with aecom on general cross risk assessment chemical consistencies.
11/14/2013	1.00	168.00	\$168.00	progress rpt and budget tracking BERA
11/15/2013	3.00	168.00	\$504.00	task management and technical questions on overarching bera.
11/20/2013	4.00	168.00	\$672.00	review of bera tasks.
11/26/2013	2.00	168.00	\$336.00	check in on status of writing pieces.
11/27/2013	4.00	168.00	\$672.00	prepare for tc/rasc mgt
Summary for Lisa Saban	46.00		\$7,728.00	

**Mike Johns**

Date	Hours	Rate	Extended	Notes
11/25/2013	2.00	178.50	\$357.00	Work on presentation materials for upcoming TC/RASC
Summary for Mike Johns	2.00		\$357.00	

**Siobhan Sloan-Evans**

Date	Hours	Rate	Extended	Notes
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11/5/2013	0.75	115.50	\$86.63	Internal meeting with Lisa Saban regarding surface water assessment
11/6/2013	1.00	115.50	\$115.50	Internal meeting regarding BERA TRV derivation approaches for all LOEs
11/26/2013	1.25	115.50	\$144.38	BERA meeting on production schedule/timeline
Summary for Siobhan Sloan-Evans		3.00	\$346.50	

**Summary for Task 45.0 BERA Technical Approach**  
**52.50 \$8,667.75**

## Task 45.2 Problem Formulation

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/26/2013	2.00	168.00	\$336.00	update csm text.
Summary for Lisa Saban		2.00	\$336.00	

### Mike Johns

Date	Hours	Rate	Extended	Notes
11/6/2013	2.00	178.50	\$357.00	Continue to review and revise Environmental Setting section
11/8/2013	3.00	178.50	\$535.50	Continue to work on draft environmental setting draft language
11/26/2013	2.00	178.50	\$357.00	Continue to work on TC presentation
Summary for Mike Johns		7.00	\$1,249.50	

**Summary for Task 45.2 Problem Formulation**  
**9.00 \$1,585.50**

## Task 45.3 Benthic Assessment

### Berit Bergquist

Date	Hours	Rate	Extended	Notes
11/8/2013	2.50	157.50	\$393.75	review background results
Summary for Berit Bergquist		2.50	\$393.75	

**Brian Church**

Date	Hours	Rate	Extended	Notes
11/1/2013	7.50	115.50	\$866.25	Internal discussion focusing on the state of the benthic BERA, next steps in analyses , creation of figures, etc; continuing to write up Section 6, benthic community structure; coordinating with Kim and Rocky on data task related to tolerance values in estuarine species (precursor to B-IBI)
11/4/2013	8.00	115.50	\$924.00	Writing up benthic community structure section-- successional stage; coordinating with Rocky and Linda M on maps and data; responding to emails from Karen and Lisa
11/5/2013	7.00	115.50	\$808.50	Continuing to write up benthic Section 6: B-IBI text, calculated B-IBI after evaluating Rocky's tables on tolerance (i.e., low % of individuals describable in terms of tolerance in reference areas, so not using tolerance in B-IBI); coordinating with Lucinda and Rocky on QC tasks
11/6/2013	9.75	115.50	\$1,126.13	Continuing to write up benthic community section; finalizing B-IBI values and tables; creating tables of benthic metric data, results from comparison to background; creating figures of biomass for structure section; coording on QC tasks (Thai); responding to emails from Lisa
11/7/2013	8.25	115.50	\$952.88	Continuing to write benthic section--incorporating biomass figures and text; discussing toxicity, salinity zones, and correlation analyses with Lisa, Karen; pulling together additional figures/maps; coordinating QC tasks
11/8/2013	8.25	115.50	\$952.88	Continuing to write benthic section--still incorporating biomass figures and text; continuing to coordinate mapping of B-IBI and QC of tables; developing additional text for feeding guild and major taxa sections; summarizing B-IBI results in tables
11/11/2013	8.00	115.50	\$924.00	Continuing to work on benthic community section: Introduction and Summary sections, beginning to work on sediment section (methods of correlation), discussing sqt very briefly with Lisa, reviewing SQT approach paper by Bay and Weisberg (2007), following up on QC tasks for sediment correlation and B-IBI tables
11/12/2013	9.00	115.50	\$1,039.50	Continuing work on benthic BERA including internal discussion of sediment section, SQT analysis, steps for multivariate analyses; writing up summaries of benthic community section, QC of tables, coordinating with Karen on tox sections
11/13/2013	7.75	115.50	\$895.13	Developing SQT approach and dataset; discussing with statistician; multivariate analysis, coordinating correlation appendix
11/14/2013	8.00	115.50	\$924.00	Preparing datasets and methodology for multivariate analysis for SQT section; developing decision framework and spreadsheet for weight-of-evidence approach for SQT (secondary SQT method).
11/15/2013	6.75	115.50	\$779.63	Continuing benthic SQT analysis; internal discussion regarding datasets and methodologies, responding to emails regarding potential appraoches, finalizing datasets for SQT approaches, began first set of PCAs (Iannuzzi et al 2008 approach with reduced copec list)

11/18/2013	7.25	115.50	\$837.38	Running the remaining PCA using Iannuzzi et al (2008) method. Starting the "indirect gradient" approach for linear regression and visual representations.
11/19/2013	4.00	115.50	\$462.00	Continuing PCA analyses using indirect gradient approach; updating Lisa, Karen on status of writing; responding to emails, phone calls regarding specifics of benthic analysis (WOE approach, background analysis approach, inclusion of surface water data and presentation)
11/20/2013	6.00	115.50	\$693.00	Continuing to run PCA using indirect gradient method--finished second dataset (one remaining)
11/21/2013	10.50	115.50	\$1,212.75	Continued PCA through to completion including various investigations to show the effect of non-chemical stressors; synthesizing results across multiple methods and zones of salinity; discussing results and preliminary conclusions with statistician--sending data for multilinear regression (determining whether effects of non-chemical stressors and/or chemistry is significant)
11/22/2013	8.25	115.50	\$952.88	Writing up sediment correlation analyses in sediment LOE for benthic section; creating tables and figures to summarize findings
11/25/2013	8.75	115.50	\$1,010.63	Internal discussion of sediment chemistry LOE and SQT analyses thus far; continuing to summarize analyses; adapting analyses as per guidance from Mike and Lisa
11/26/2013	10.25	115.50	\$1,183.88	Continuing correlation section for sediment LOE; internal discussion regarding scheduling, state of all tasks; tracking down information on reference sites for data section and qc of maps; coordinating with various people on maps, figures, data--responding to emails, calls
11/27/2013	8.75	115.50	\$1,010.63	Finished write up correlation section, updating map tracking file for Jenn, Karen; writing up SQT methods section
Summary for Brian Church				
	152.00		\$17,556.00	

### Jennifer Parker

Date	Hours	Rate	Extended	Notes
11/1/2013	1.00	157.50	\$157.50	Reviewed data and provided data to project team.
Summary for Jennifer Parker				
	1.00		\$157.50	

### Karen Tobiason

Date	Hours	Rate	Extended	Notes
11/1/2013	4.00	157.50	\$630.00	Internal working meeting on benthic analysis; work on predictability analysis of NJ criteria.
11/4/2013	5.00	157.50	\$787.50	Continue to work on dataset for benthic analysis
11/5/2013	3.00	157.50	\$472.50	Continue to work on benthic SQT dataset; evaluative reliability of NJ sediment criteria.
11/6/2013	3.50	157.50	\$551.25	Evaluate status of correlation analysis, work on toxicity testing and sediment sections.

11/7/2013	6.50	157.50	\$1,023.75	Prepare statistical summary tables for toxicity dataset, work on summaries of data for the BERA; evaluate salinity zones based on surface water salinity data.
11/8/2013	5.75	157.50	\$905.63	Organize existing figures for use in the BERA, coordinate updating flowchart of benthic analysis process, check maps for data section, review data section from benthic samples perspective.
11/11/2013	5.00	157.50	\$787.50	Working meeting to continue to fine tune the benthic assessment, work on continued incorporation of habitat characteristics. work on discussion of sediment analysis.
11/13/2013	3.50	157.50	\$551.25	Pull together the analyses showing toxicity data compared to reference.
11/14/2013	3.50	157.50	\$551.25	Work on variables for PCA analysis, discuss approaches and review results to work on plan for next steps.
11/15/2013	5.00	157.50	\$787.50	Work on discussion of results in toxicity section of the BERA, discuss most recent PCA analysis using clustering of habitat characteristics
11/19/2013	2.00	157.50	\$315.00	Work on toxicity and reliability of chemistry sediment criteria sections.
11/21/2013	4.00	157.50	\$630.00	Update and tables and structure of toxicity section.
11/22/2013	2.00	157.50	\$315.00	Evaluate reliability measures of NJ sediment criteria and site-specific toxicity data; prepare tables.
11/25/2013	7.50	157.50	\$1,181.25	Work on description of uncertainty in toxicity evaluation, coordinate with GIS team, work on further discussion of toxicity and review benthic community discussion, discuss SQT evaluation and review figures, evaluate appendices for benthic assessment.
11/26/2013	6.00	157.50	\$945.00	Working meeting, work on text for predictability of NJ sediment criteria, work on graphs to show reference information for toxicity data.
11/27/2013	4.00	157.50	\$630.00	Work on summary of reference data for toxicity and benthic community sections.
Summary for Karen Tobiason				
	70.25		\$11,064.38	

#### Kim Goffman

Date	Hours	Rate	Extended	Notes
11/1/2013	5.00	115.50	\$577.50	Prepare background dataset for BERA analysis work. Provide criteria tables for benthic section authors.
11/4/2013	3.50	115.50	\$404.25	Finish prep of SQT dataset for selected endpoints, metrics, and chemicals. Prepare screen of bioassay station chemistry.
11/5/2013	2.50	115.50	\$288.75	Prepare comparative study area/upstream dataset for BERA analysis work.
11/6/2013	5.50	115.50	\$635.25	Provide ad hoc data support BERA section authors. Incorporate dredged bioassay station data into benthic assessment.
11/7/2013	3.00	115.50	\$346.50	Summarize salinity data. Prep source tables for predictability and reliability measures. Expand screen of benthic chemistry dataset.
Summary for Kim Goffman				
	19.50		\$2,252.25	

**Linda Marsh**

Date	Hours	Rate	Extended	Notes
11/4/2013	1.50	94.50	\$141.75	Worked on benthic map revisions.
11/7/2013	1.25	94.50	\$118.13	Revised the benthic successional stage map.
11/8/2013	1.25	94.50	\$118.13	Revised benthic successional stage maps.
11/18/2013	2.00	94.50	\$189.00	Made maps of B-IBI results.
11/27/2013	3.00	94.50	\$283.50	Made maps of likelihood of benthic impact.
Summary for Linda Marsh	9.00		\$850.50	

**Lisa Saban**

Date	Hours	Rate	Extended	Notes
11/11/2013	4.00	168.00	\$672.00	benthic section of RA.
11/18/2013	4.00	168.00	\$672.00	continue on benthic sed backgrd
11/27/2013	2.00	168.00	\$336.00	review sqt maps.
Summary for Lisa Saban	10.00		\$1,680.00	

**Lucinda Tear**

Date	Hours	Rate	Extended	Notes
11/1/2013	8.00	157.50	\$1,260.00	Code and debug new graphs
11/2/2013	8.00	157.50	\$1,260.00	add coding for outliers and mann whitney tests
11/3/2013	8.00	157.50	\$1,260.00	finalize coding and analyses
11/4/2013	3.00	157.50	\$472.50	Summarize results.
11/5/2013	3.00	157.50	\$472.50	discuss results with Shannon, edit email summary
11/6/2013	1.50	157.50	\$236.25	discuss reliability measures with Karen; find files; email
11/10/2013	4.50	157.50	\$708.75	qc runs of spearman correlations for sqt variables.
11/13/2013	2.50	157.50	\$393.75	discussion and emails related to PCA approach for SQT
Summary for Lucinda Tear	38.50		\$6,063.75	

**Marcy McAuliffe**

Date	Hours	Rate	Extended	Notes
11/1/2013	4.00	115.50	\$462.00	Finish preparing table: status of references for benthic community spreadsheet; email to relevant technical staff
Summary for Marcy McAuliffe	4.00		\$462.00	



**Mike Johns**

Date	Hours	Rate	Extended	Notes
11/1/2013	3.00	178.50	\$535.50	Working with Brain and Lisa on final analysis for benthic risks and report preparation
11/4/2013	2.00	178.50	\$357.00	Working with staff on draft language for benthic risk assessment
11/8/2013	3.00	178.50	\$535.50	Continue to work on benthic risk text
11/12/2013	3.00	178.50	\$535.50	internal meeting on status and begin review of available text
11/13/2013	4.00	178.50	\$714.00	continue review of benthic sections
11/18/2013	2.00	178.50	\$357.00	Reviewing 1st draft of benthic community risk section
11/20/2013	2.00	178.50	\$357.00	Continued to review 1st draft of benthic risk section
11/25/2013	3.00	178.50	\$535.50	Continue editing benthic assessment
11/27/2013	3.00	178.50	\$535.50	Editing and working with staff on benthic assessment
Summary for Mike Johns				
	25.00		\$4,462.50	

**Rocky Wells**

Date	Hours	Rate	Extended	Notes
11/1/2013	1.00	115.50	\$115.50	Calculated and summarized surface water UCLs
11/4/2013	3.00	115.50	\$346.50	Compiling environmental tolerance data by species
11/6/2013	1.25	115.50	\$144.38	Reviewed B-IBI spreadsheet
11/13/2013	3.75	115.50	\$433.13	Worked on summarizing correlation analyses for the BERA appendix
11/14/2013	0.50	115.50	\$57.75	Completed work on summarizing correlation analyses for the BERA appendix
Summary for Rocky Wells				
	9.50		\$1,097.25	

**Ron Gouguet**

Date	Hours	Rate	Extended	Notes
11/15/2013	1.00	157.50	\$157.50	begin table QA
Summary for Ron Gouguet				
	1.00		\$157.50	

**Shana Schorsch**

Date	Hours	Rate	Extended	Notes
11/8/2013	0.50	94.50	\$47.25	Flowchart revisions
11/20/2013	3.00	94.50	\$283.50	Format data tables for appendix

Summary for Shana Schorsch  
3.50

\$330.75

### Shannon Katka

Date	Hours	Rate	Extended	Notes
11/5/2013	1.50	157.50	\$236.25	review of background vs LPRSA sediment chemistry results per Lucinda's analysis; write up summary of results
Summary for Shannon Katka	1.50		\$236.25	

### Siobhan Sloan-Evans

Date	Hours	Rate	Extended	Notes
11/1/2013	0.50	115.50	\$57.75	surface water exposure data summaries for benthic assessment (0.5)
11/7/2013	0.75	115.50	\$86.63	Working on exposure/risk calculation summary tables and background comparison figures for the surface water LOE of the benthic assessment
11/12/2013	1.00	115.50	\$115.50	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/13/2013	0.50	115.50	\$57.75	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/14/2013	0.25	115.50	\$28.88	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/15/2013	0.25	115.50	\$28.88	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/18/2013	2.25	115.50	\$259.88	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/19/2013	0.50	115.50	\$57.75	benthic surface water effects analysis and risk characterization
11/20/2013	0.50	115.50	\$57.75	benthic surface water effects analysis and risk characterization; QC of exposure data summary tables
11/21/2013	2.00	115.50	\$231.00	Compiling/formatting background comparison figures; writing benthic surface water effects analysis and risk characterization
11/22/2013	3.00	115.50	\$346.50	Compiling/formatting background comparison figures; writing benthic surface water effects analysis and risk characterization
11/25/2013	1.00	115.50	\$115.50	Writing effects analysis and risk characterization for surface water in benthic invertebrate assessment
11/26/2013	2.00	115.50	\$231.00	Writing effects analysis and risk characterization for surface water in benthic invertebrate assessment
Summary for Siobhan Sloan-Evans	14.50		\$1,674.75	

**Thai Do**

Date	Hours	Rate	Extended	Notes
11/6/2013	6.00	115.50	\$693.00	Review and QC benthic metric calculations for Jamaica Bay and Mullica River/Great Bay and UPR
11/7/2013	6.00	115.50	\$693.00	Review and QC benthic metric calculations for Jamaica Bay and Mullica River/Great Bay and UPR, and per RM and zone in LPRSA
11/8/2013	4.00	115.50	\$462.00	Review and QC benthic metric calculations per RM and zone in LPRSA
11/11/2013	8.00	115.50	\$924.00	QC diversity calculations and data tables for Brian
Summary for Thai Do	24.00		\$2,772.00	

**Summary for Task 45.3 Benthic Assessment****385.75****\$51,211.13****Task 45.4 Plant/amphib/rept Assessment****Kim Galimanis**

Date	Hours	Rate	Extended	Notes
11/20/2013	0.25	115.50	\$28.88	flowchart for Siobhan
Summary for Kim Galimanis	0.25		\$28.88	

**Shana Schorsch**

Date	Hours	Rate	Extended	Notes
11/15/2013	3.00	94.50	\$283.50	EN entries
Summary for Shana Schorsch	3.00		\$283.50	

**Shannon Katka**

Date	Hours	Rate	Extended	Notes
11/12/2013	1.50	157.50	\$236.25	determine final surface water TRVs and rationale; work on reviewing surface water analysis write up and presentation
11/25/2013	1.50	157.50	\$236.25	continue review of surface water sections
Summary for Shannon Katka	3.00		\$472.50	

**Siobhan Sloan-Evans**

Date	Hours	Rate	Extended	Notes
11/1/2013	4.75	115.50	\$548.63	Evaluation of plant effects data for surface water COPECs (4); exposure data summaries for plant & amphibian assessment (1)
11/5/2013	3.50	115.50	\$404.25	TRV revisions for intermediate surface water screen for aquatic plant COPECs
11/11/2013	5.25	115.50	\$606.38	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/12/2013	4.00	115.50	\$462.00	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data; surface water effects analysis for amphibian/reptile assessment
11/13/2013	3.00	115.50	\$346.50	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data; surface water effects analysis for amphibian/reptile assessment
11/14/2013	2.50	115.50	\$288.75	Compiling data sources, references (for EndNote) for aquatic plant/surface water effects data
11/15/2013	1.00	115.50	\$115.50	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data
11/18/2013	2.50	115.50	\$288.75	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data ; QC of data files
11/19/2013	1.00	115.50	\$115.50	amphibian surface water effects analysis
11/22/2013	2.50	115.50	\$288.75	Compiling/formatting background comparison figures; zooplankton surface water effects analysis and risk characterization
11/25/2013	3.50	115.50	\$404.25	Compiling/formatting EPC and HQ summary tables for aquatic plants; QC of surface water COI/COPEC tables; Writing effects analysis and risk characterization for surface water in zooplankton assessment
11/26/2013	2.00	115.50	\$231.00	QC of EPC and HQ summary tables for aquatic plants; Writing effects analysis and risk characterization for surface water in zooplankton assessment
11/27/2013	3.00	115.50	\$346.50	Finalizing Surface Water TRVs appendix for review/editing
Summary for Siobhan Sloan-Evans		38.50	\$4,446.75	
<b>Summary for Task 45.4 Plant/amphib/rept Assessment</b>		<b>44.75</b>	<b>\$5,231.63</b>	

**Task 45.5 Fish Assessment****David DeForest**

Date	Hours	Rate	Extended	Notes
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11/1/2013	3.00	157.50	\$472.50	Metal TRV text
Summary for David DeForest		3.00	\$472.50	

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/14/2013	3.00	168.00	\$504.00	review sw TRVs
11/20/2013	3.00	168.00	\$504.00	wrap up of sw analysis ssd review.
11/21/2013	4.00	168.00	\$672.00	fish egg conversion review and start of text review.
11/25/2013	3.00	168.00	\$504.00	working on fish evaluation.
11/25/2013	4.00	168.00	\$672.00	working on sw evaluation
11/26/2013	4.00	168.00	\$672.00	work on fish and sw evaluation
Summary for Lisa Saban		21.00	\$3,528.00	

### Lucinda Tear

Date	Hours	Rate	Extended	Notes
11/5/2013	7.00	157.50	\$1,102.50	begin coding for tissue analyses; first set of summary graphs for species with largest sample sizes
11/6/2013	9.00	157.50	\$1,417.50	work out details for species with irregular sample sizes.
11/20/2013	6.00	157.50	\$945.00	graphs, MW tests, outlier analyses for small fish (bird and mammal prey) scenarios. Had to rewrite some code for this.
11/21/2013	8.00	157.50	\$1,260.00	discuss PCA, run initial SQT partial correls
Summary for Lucinda Tear		30.00	\$4,725.00	

### Rocky Wells

Date	Hours	Rate	Extended	Notes
11/12/2013	1.00	115.50	\$115.50	Created and summarized a new set of UCLs for surface water
Summary for Rocky Wells		1.00	\$115.50	

### Shannon Katka

Date	Hours	Rate	Extended	Notes
11/1/2013	1.50	157.50	\$236.25	work on defining chemistry background datasets for tissue; review of background compositing memo for rationale and dataset pairing

11/11/2013	7.25	157.50	\$1,141.88	complete draft and calculations for fish egg LOW evaluation, including mummichog lipid analysis results; work on background tissue dataset definition for presentation in BERA
11/12/2013	0.75	157.50	\$118.13	determine final surface water TRVs and rationale; work on reviewing surface water analysis write up and presentation
11/13/2013	1.25	157.50	\$196.88	complete review of surface water TRV rationale and selection; provide summary of water data used in BERA for AECOM
11/25/2013	3.50	157.50	\$551.25	review of fish egg regression/lipid calculations for estimating concentrations in fish; continue review of surface water sections
Summary for Shannon Katka				
	14.25		\$2,244.38	

### Siobhan Sloan-Evans

Date	Hours	Rate	Extended	Notes
11/1/2013	0.50	115.50	\$57.75	surface water exposure data summaries for fish assessment (0.5)
11/11/2013	2.00	115.50	\$231.00	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data (fish assessment)
11/12/2013	2.00	115.50	\$231.00	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data (fish assessment)
11/13/2013	4.00	115.50	\$462.00	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data (fish assessment)
11/14/2013	5.00	115.50	\$577.50	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data (fish assessment); surface water effects analysis for fish LOE
11/15/2013	4.75	115.50	\$548.63	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data; preparation of data files for QC
11/18/2013	2.50	115.50	\$288.75	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data; surface water effects analysis for fish assessment
11/19/2013	4.75	115.50	\$548.63	Compiling/formatting figures, summary tables for surface water chemistry data and surface water effects data; surface water effects analysis and risk characterization for fish assessment
11/20/2013	4.50	115.50	\$519.75	Compiling/formatting/QC'ing figures, summary tables for surface water chemistry data and surface water effects data; surface water effects analysis and risk characterization for fish assessment
11/21/2013	5.00	115.50	\$577.50	Writing surface water effects analysis and risk characterization for fish assessment
11/25/2013	3.25	115.50	\$375.38	Writing effects analysis, risk characterization for surface water in fish assessment
11/26/2013	2.25	115.50	\$259.88	Writing effects analysis, risk characterization, uncertainty analysis for surface water in fish assessment
11/27/2013	0.25	115.50	\$28.88	Writing effects analysis, risk characterization, uncertainty analysis for surface water in fish assessment

Summary for Siobhan Sloan-Evans  
40.75

\$4,706.63

### Thai Do

Date	Hours	Rate	Extended	Notes
11/15/2013	5.00	115.50	\$577.50	Begin QC of surface water (EPC/HQ) calculations for Siobhán
11/18/2013	5.00	115.50	\$577.50	Completed QC of surface water (EPC/HQ) calculations for Siobhán
11/22/2013	5.00	115.50	\$577.50	Work on QC of TRV screens for Siobhán

Summary for Thai Do

15.00

\$1,732.50

### Summary for Task 45.5 Fish Assessment

125.00

\$17,524.50

## Task 45.6 Wildlife Assessment

### Linda Marsh

Date	Hours	Rate	Extended	Notes
11/15/2013	1.00	94.50	\$94.50	Calculated additional statistics from the mink HSI.
11/19/2013	4.50	94.50	\$425.25	Determined best patches of mink habitat and added to write-up.
11/27/2013	2.50	94.50	\$236.25	Discussed mink habitat with Berit and made a map of habitat within 100 ft.

Summary for Linda Marsh

8.00

\$756.00

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/12/2013	1.00	168.00	\$168.00	answering questions on incorporation of bird surveys into bera.
11/18/2013	2.00	168.00	\$336.00	pcb and mink habitat review
11/27/2013	2.00	168.00	\$336.00	work on mink model text.

Summary for Lisa Saban

5.00

\$840.00

### Mike Yarnes

Date	Hours	Rate	Extended	Notes
11/19/2013	3.00	94.50	\$283.50	Began and finished mink small scale habitat map and data query.

11/20/2013	1.00	94.50	\$94.50	Began and finished making small changes to map for mink habitat report.
11/21/2013	0.50	94.50	\$47.25	Exported mink habitat map to smaller data size for more seamless incorporation into document.
Summary for Mike Yarnes		4.50	\$425.25	

### Shana Schorsch

Date	Hours	Rate	Extended	Notes
11/19/2013	2.25	94.50	\$212.63	Edit for formatting, tables
Summary for Shana Schorsch		2.25	\$212.63	

### Shannon Katka

Date	Hours	Rate	Extended	Notes
11/1/2013	1.50	157.50	\$236.25	work on defining chemistry background datasets for tissue; review of background compositing memo for rationale and dataset pairing
Summary for Shannon Katka		1.50	\$236.25	

### Siobhan Sloan-Evans

Date	Hours	Rate	Extended	Notes
11/19/2013	1.00	115.50	\$115.50	additional surface water UCL calculations for wildlife receptors
Summary for Siobhan Sloan-Evans		1.00	\$115.50	

**Summary for Task 45.6 Wildlife Assessment**  
**22.25 \$2,585.63**

## Task 45.7 Uncertainty Evaluation

### Berit Bergquist

Date	Hours	Rate	Extended	Notes
11/1/2013	3.00	157.50	\$472.50	finish reviewing and begin summarizing papers on river otter diet for probabilistic model; discuss with Suzanne
11/5/2013	2.00	157.50	\$315.00	finish reviewing diet papers for mink and river otter; discuss probabilistic modeling with Suzanne
11/7/2013	1.50	157.50	\$236.25	evaluate uncertainty associated with no upriver crab data
11/8/2013	3.00	157.50	\$472.50	calculate HQs based on abundance



11/11/2013	3.00	157.50	\$472.50	work on diet and input parameters for probabilistic model
11/12/2013	6.00	157.50	\$945.00	research metabolic rate calculations and variability; review articles on TEQ method for uncertainty discussion
11/13/2013	2.00	157.50	\$315.00	review articles on bird sensitivity to dioxins for uncertainty section
11/15/2013	1.00	157.50	\$157.50	wildlife uncertainty calculations
11/27/2013	4.00	157.50	\$630.00	work on mammal and bird uncertainty calculations
Summary for Berit Bergquist				
	25.50		\$4,016.25	

#### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/21/2013	1.00	168.00	\$168.00	review uncertainties in mink model.
Summary for Lisa Saban				
	1.00		\$168.00	

#### Matt Luxon

Date	Hours	Rate	Extended	Notes
11/4/2013	2.00	157.50	\$315.00	Evaluating uncertainty in water effects data.
11/6/2013	2.50	157.50	\$393.75	Evaluating uncertainty in water effects data.
11/11/2013	4.00	157.50	\$630.00	Writing surface water TRV uncertainty analysis.
11/12/2013	4.50	157.50	\$708.75	Finalizing surface water TRV uncertainty analysis.
11/13/2013	3.50	157.50	\$551.25	Writing uncertainty analysis of wildlife habitat.
11/18/2013	3.00	157.50	\$472.50	Writing uncertainty analysis of mink habitat implications for risk.
11/19/2013	6.00	157.50	\$945.00	Began review of adult fish to egg COPC modeling.
11/20/2013	4.00	157.50	\$630.00	Evaluating use of different thresholds for identifying thresholds of ecological significance from species sensitivity distributions.
11/22/2013	2.00	157.50	\$315.00	Continued review of adult fish to egg COPC modeling.
11/25/2013	0.25	157.50	\$39.38	Answering questions from Shannon regarding fish eggs.
Summary for Matt Luxon				
	31.75		\$5,000.63	

#### Suzanne Replinger

Date	Hours	Rate	Extended	Notes
11/1/2013	1.50	115.50	\$173.25	mink and river otter uncertainty analysis
11/4/2013	2.50	115.50	\$288.75	refining mink probabilistic evaluation calcs; adding additional chemicals to probabilistic evaluation
11/5/2013	3.75	115.50	\$433.13	refining mink probabilistic evaluation calcs; adding additional chemicals to probabilistic evaluation

11/6/2013	2.50	115.50	\$288.75	refining mink probabilistic evaluation calcs; adding additional chemicals to probabilistic evaluation
11/7/2013	3.25	115.50	\$375.38	blue crab tissue data calcs for mink/otter risk
11/8/2013	5.00	115.50	\$577.50	mink and otter uncertainty evaluations
11/11/2013	4.50	115.50	\$519.75	otter uncertainty calculations
11/12/2013	2.50	115.50	\$288.75	otter uncertainty calculations (UCLs and PRA)
11/13/2013	3.50	115.50	\$404.25	refinement of otter and mink PRA calculations
11/14/2013	2.50	115.50	\$288.75	refinement of otter and mink PRA calculations
11/15/2013	3.25	115.50	\$375.38	refinement of otter and mink PRA calculations, calculation of additional UCLs, PRA appendix write-up
11/18/2013	0.75	115.50	\$86.63	mink / otter calcs
11/25/2013	1.75	115.50	\$202.13	calculation of UCLs for mink and river otter
11/26/2013	3.75	115.50	\$433.13	revisions to BERA tables based on UCL updates
11/27/2013	3.50	115.50	\$404.25	PRA runs for river otter using less than 30cm fish, UCL comparisons

Summary for Suzanne Replinger

44.50

\$5,139.75

**Summary for Task 45.7 Uncertainty Evaluation**

**102.75**

**\$14,324.63**

## Task 45.8 Report Preparation

### Berit Bergquist

Date	Hours	Rate	Extended	Notes
11/1/2013	1.25	157.50	\$196.88	continue writing wildlife section
11/5/2013	2.25	157.50	\$354.38	continue writing various parts of wildlife section
11/6/2013	6.50	157.50	\$1,023.75	continue writing wildlife section
11/7/2013	6.00	157.50	\$945.00	continue writing wildlife effects section
11/8/2013	1.50	157.50	\$236.25	continue writing wildlife exposure and effects section
11/11/2013	2.00	157.50	\$315.00	continue writing wildlife section
11/12/2013	3.00	157.50	\$472.50	continue writing wildlife sections
11/13/2013	5.50	157.50	\$866.25	continue writing wildlife section
11/14/2013	7.00	157.50	\$1,102.50	continue writing wildlife sections
11/15/2013	7.00	157.50	\$1,102.50	continue writing wildlife sections
11/18/2013	2.00	157.50	\$315.00	continue writing uncertainty section for wildlife
11/19/2013	8.00	157.50	\$1,260.00	continue writing wildlife uncertainty section, review surface water assessment for fish; begin outline for background appendix
11/20/2013	8.00	157.50	\$1,260.00	begin fish tissue assessment (introduction, exposure, risk characterization)
11/21/2013	8.00	157.50	\$1,260.00	continue writing fish tissue section (exposure and risk characterization)

11/22/2013	8.00	157.50	\$1,260.00	begin writing fish diet section; continue writing background appendix; review mink habitat analysis appendix; write mummichog egg assessment section
11/25/2013	2.00	157.50	\$315.00	continue writing wildlife effects section
11/26/2013	4.50	157.50	\$708.75	continue writing wildlife effects and uncertainty sections
11/27/2013	4.00	157.50	\$630.00	work on edits and revisions to mink habitat analysis appendix
Summary for Berit Bergquist				
	86.50		\$13,623.75	

### Craig Hanson

Date	Hours	Rate	Extended	Notes
11/5/2013	1.00	115.50	\$115.50	BERA map task review and preparation.
11/6/2013	4.50	115.50	\$519.75	Organizing map files; began updating BERA maps per task list comments.
11/7/2013	2.50	115.50	\$288.75	Continued updating BERA maps per task list comments.
11/11/2013	6.50	115.50	\$750.75	Continued updating BERA maps per task list comments.
11/12/2013	6.50	115.50	\$750.75	Continued updating BERA maps per task list comments.
11/13/2013	7.00	115.50	\$808.50	Continued updating BERA maps per task list comments.
11/15/2013	2.00	115.50	\$231.00	Continued updating BERA maps per task list comments.
11/18/2013	6.00	115.50	\$693.00	Updating baselayers on BERA maps.
11/19/2013	5.50	115.50	\$635.25	Updating baselayers on BERA maps.
11/26/2013	2.00	115.50	\$231.00	Updating baselayers on BERA maps.
Summary for Craig Hanson				
	43.50		\$5,024.25	

### David DeForest

Date	Hours	Rate	Extended	Notes
11/5/2013	1.00	157.50	\$157.50	Surface water TRV text
11/6/2013	3.00	157.50	\$472.50	Review of amphibian TRVs and discussions with Siobhan; TRV meeting with Shannon, Matt, Siobhan, and Berit
11/8/2013	3.00	157.50	\$472.50	Metals TRV review and text
Summary for David DeForest				
	7.00		\$1,102.50	

### Jennifer Parker

Date	Hours	Rate	Extended	Notes
11/4/2013	2.75	157.50	\$433.13	Providing John with summary of water data for BERA and discussing with data manager, discussion regarding data rules and SQT locations for benthic analysis. Coordinated with GIS staff and data manager.

11/5/2013	1.25	157.50	\$196.88	Coordination with data and GIS staff regarding mapping of locations, discussion of benthic analysis that includes SQT location from dredged area.
11/8/2013	4.00	157.50	\$630.00	Reviewed PMs comments on BERA section, addressed PMs comments, revised map list and coordinated with GIS staff.
11/13/2013	2.00	157.50	\$315.00	Coordinated with GIS staff, updated data section, and reviewed maps.
11/14/2013	1.25	157.50	\$196.88	Coordinated with GIS staff and database staff regarding maps.
11/15/2013	1.25	157.50	\$196.88	Continued to coordinated with GIS staff and database staff regarding surface water maps.
11/26/2013	3.00	157.50	\$472.50	Continued working on BERA and discussed status of maps with GIS staff.
Summary for Jennifer Parker		15.50	\$2,441.25	

### Linda Cognato

Date	Hours	Rate	Extended	Notes
11/11/2013	7.00	115.50	\$808.50	Review of problem formulation. Identified, located, inserted and cleaned up tables, searched for and identified figures, began creating new figures for section, formatted section, fixed footers, began checking for acronyms, began inserting figures, began identifying references for insertion using EndNote
11/12/2013	6.00	115.50	\$693.00	Review of problem formulation. Continued inserting new figures for section, cleaned up text, continued inserting references using EndNote, identified reference issues in other sections of document and began fixing those.
11/13/2013	3.50	115.50	\$404.25	Continued cleanup of problem formulation section, continued cleanup of references in rest of main document.
11/14/2013	1.00	115.50	\$115.50	Finished reference fixes in main document and revised figure.
11/19/2013	1.50	115.50	\$173.25	Began review of wildlife section. Began fixing formatting, began reviewing tables and checking and revising acronyms, began checking table callouts
Summary for Linda Cognato		19.00	\$2,194.50	

### Marcy McAuliffe

Date	Hours	Rate	Extended	Notes
11/13/2013	1.00	115.50	\$115.50	Order five articles from UW per Berit; remove double-entry of one additional article from Library and EndNote
Summary for Marcy McAuliffe		1.00	\$115.50	

### Mike Yarnes

Date	Hours	Rate	Extended	Notes
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11/12/2013	5.25	94.50	\$496.13	Began assisting with map production and edits to BERA maps. Began and finished working on map 4-2 and began work on 4-32.
11/13/2013	8.00	94.50	\$756.00	Began and finished working on map 4-2 internal edits/comments and began working on map 4-31.
11/14/2013	7.50	94.50	\$708.75	Continued and finished working on map 4-31 and began working on map 2-1.
11/15/2013	4.50	94.50	\$425.25	Began and finished making edits based on internal comments to map 4-31. Continued working on map 2-1.
11/18/2013	6.75	94.50	\$637.88	Finished map 2-1 - it is now 2-1a and 2-1b. Split the map into river mile segments, symbology, and layout.
11/20/2013	2.00	94.50	\$189.00	Continued to work on maps 2-1a and 2-1b. Made global symbol changes and placed estuarine and freshwater zones on map and legend.
11/22/2013	0.50	94.50	\$47.25	Began and finished table QC reviewing the EPC fish section.
11/22/2013	6.00	94.50	\$567.00	Began and finished working on map 2-1a and b. The maps layouts changed so that the number of windows matched the number of reaches for each zone of freshwater and estuarine zone.
11/25/2013	7.25	94.50	\$685.13	Began and finished more edits to maps 2-1a and 2-1b. Consolidated overlapping locations using a heads-up approach, checking dates and trap type to identify locations that would be considered re-established locations from previous studies.
11/25/2013	0.75	94.50	\$70.88	Began and finished QC work on another excel table containing data for EPC fish diet.
11/26/2013	3.00	94.50	\$283.50	Began and finished a new round of edits, changing some symbols and consolidating a few other locations caught through QC.

Summary for Mike Yarnes

51.50

\$4,866.75

### Rocky Wells

Date	Hours	Rate	Extended	Notes
11/15/2013	2.00	115.50	\$231.00	Prepped tables for wildlife section
11/18/2013	1.25	115.50	\$144.38	Creating EPC tables for wildlife section.
11/21/2013	0.75	115.50	\$86.63	Creating EPC tables for fish section.
11/25/2013	0.50	115.50	\$57.75	Worked on an EPC table for fish diet

Summary for Rocky Wells

4.50

\$519.75

### Shana Schorsch

Date	Hours	Rate	Extended	Notes
11/5/2013	0.50	94.50	\$47.25	EN entries
11/8/2013	1.50	94.50	\$141.75	Format tables in Environmental Setting document, EN entries
11/12/2013	0.50	94.50	\$47.25	EN entries

Summary for Shana Schorsch  
2.50

\$236.25

### Shannon Katka

Date	Hours	Rate	Extended	Notes
11/3/2013	0.50	157.50	\$78.75	define background tissue datasets for comparison to LPRSA data
11/5/2013	4.25	157.50	\$669.38	review of TRV selection process for surface water TRVs and surface water risk result presentation for receptor groups; work on bird egg results presentation section for BERA; review overall TRV selection for BERA across LOEs/receptors
11/6/2013	7.50	157.50	\$1,181.25	meet to discuss and make consistent the derivation process for BERA TRVs across LOEs for presentation and use in the BERA; work on exposure area definition for amphibians and reptiles based on survey observations; update overall schedule for BERA sections and organize appendix list; review of surface water TRV appendix introduction on overall section process
11/7/2013	2.00	157.50	\$315.00	continue review of surface water TRV appendix- provide edits and review of text and figures
11/8/2013	3.50	157.50	\$551.25	complete review of surface water TRV appendix- provide edits and review of text and figures; review of background analysis and summarize data to determine best presentation in the BERA
11/11/2013	0.75	157.50	\$118.13	work with Linda on figures for Problem Formulation section of BERA
11/12/2013	4.75	157.50	\$748.13	work on draft of bird egg section; look into refinement of bird egg TRVs
11/13/2013	2.75	157.50	\$433.13	work on draft of bird egg section; work on refinement of literature-based biomagnification factors (BMFs)
11/15/2013	1.00	157.50	\$157.50	review additional literature studies on LPRSA-specific BMFs for bird egg LOE
11/25/2013	0.50	157.50	\$78.75	update appendix list and organization of BERA
11/26/2013	3.00	157.50	\$472.50	begin review of additional bird toxicity literature on dioxins and BMF papers for egg tissue LOE; meet on overall report progress/status/schedule of BERA

Summary for Shannon Katka  
30.50

\$4,803.75

### Siobhan Sloan-Evans

Date	Hours	Rate	Extended	Notes
11/4/2013	7.00	115.50	\$808.50	Writing surface water BERA TRV revision appendix; Working on exposure/risk calculation summary tables, exposure figures, and background comparison figures for the surface water LOE for all assessments
11/5/2013	2.75	115.50	\$317.63	Writing surface water BERA TRV revision appendix; Working on exposure/risk calculation summary tables, exposure figures, and background comparison figures for the surface water LOE for all assessments

11/6/2013	7.00	115.50	\$808.50	Writing surface water BERA TRV revision appendix; Working on exposure/risk calculation summary tables, exposure figures, and background comparison figures for the surface water LOE for all assessments
11/7/2013	6.75	115.50	\$779.63	Writing surface water BERA TRV revision appendix; Working on exposure/risk calculation summary tables, exposure figures, and background comparison figures for the surface water LOE for all assessments
11/8/2013	7.00	115.50	\$808.50	Writing surface water BERA TRV revision appendix; Working on exposure/risk calculation summary tables, exposure figures, and background comparison figures for the surface water LOE for all assessments
Summary for Siobhan Sloan-Evans				
	30.50		\$3,522.75	

### Thai Do

Date	Hours	Rate	Extended	Notes
11/5/2013	4.00	115.50	\$462.00	Work on photos for BERA
11/8/2013	4.00	115.50	\$462.00	Begin chemical profiles for Berit
11/12/2013	7.75	115.50	\$895.13	Begin research TRVs and literature for write up on chemical toxicity of PCBs and dioxins/furans to risk drivers
11/13/2013	8.00	115.50	\$924.00	Continue research and review TRVs and literature for write up on chemical toxicity of PCBs and dioxins/furans to risk drivers
11/14/2013	8.00	115.50	\$924.00	Review TRVs and literature, and write up chemical toxicity of PCBs and dioxins/furans to risk drivers
11/15/2013	3.00	115.50	\$346.50	Research additional literature for toxicity of PCBs to fish and birds (additional write-up)
11/18/2013	3.00	115.50	\$346.50	Prepping and QC of EPC tables for wildlife section (for Rocky)
11/19/2013	8.00	115.50	\$924.00	Begin TRV literature search for prey to bird egg biomagnification factors, and plant soil, lines of evidence.
11/20/2013	4.00	115.50	\$462.00	Continue with TRV literature search for plant soil BMFs, line of evidence.
11/21/2013	8.00	115.50	\$924.00	Continue literature search for prey to bird egg BMFs, and plant soil, lines of evidence.
11/22/2013	3.00	115.50	\$346.50	QC Map figures 2-1a and 2-1b; review soil thresholds for plants
11/25/2013	7.25	115.50	\$837.38	Obtain journal articles to review bird egg TRV (e.g., biomagnification) studies (Custer et al 2010; Jones et al 1994; Staub et al 2007; Seston et al 2012)
11/26/2013	8.00	115.50	\$924.00	Begin work on plant uncertainty section for Shannon; review PFD and RARC for specific plant type (vascular v nonvascular)
11/27/2013	4.00	115.50	\$462.00	Continue work on plant uncertainty write up
11/30/2013	4.00	115.50	\$462.00	Search plant literature for additional info on soil/sediment thresholds for plant uncertainty write up
Summary for Thai Do				
	84.00		\$9,702.00	

### Summary for Task 45.8 Report Preparation

**376.00**

**\$48,153.00**

## Task 47 FS Support

### Berit Bergquist

Date	Hours	Rate	Extended	Notes
11/4/2013	0.50	157.50	\$78.75	provide RBTC information for RAO development
11/5/2013	0.75	157.50	\$118.13	review FS text
Summary for Berit Bergquist	1.25		\$196.88	

### Linda Cognato

Date	Hours	Rate	Extended	Notes
11/8/2013	0.50	115.50	\$57.75	Location, duplication, and transmission of original files for Marcia
Summary for Linda Cognato	0.50		\$57.75	

### Linda Marsh

Date	Hours	Rate	Extended	Notes
11/4/2013	5.00	94.50	\$472.50	Updated metadata and prepared map for packaging and export.
Summary for Linda Marsh	5.00		\$472.50	

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/4/2013	8.00	168.00	\$1,344.00	writing up sections of the FS for Bill Locke.
11/5/2013	4.00	168.00	\$672.00	writing up sections of the FS
11/8/2013	2.00	168.00	\$336.00	provide additional language for marcia on biological and habitat characteristics.
11/11/2013	2.00	168.00	\$336.00	reviewing restoration plans.
11/18/2013	2.00	168.00	\$336.00	call and follow up with bill and betsy regarding rbtc and prgs.
Summary for Lisa Saban	18.00		\$3,024.00	

### Shannon Katka

Date	Hours	Rate	Extended	Notes
------	-------	------	----------	-------



11/5/2013	0.75	157.50	\$118.13	review of RBCG summary based on preliminary BERA results
11/27/2013	1.00	157.50	\$157.50	update ERA COC table with results from plants, amphibians/reptiles, eggs, and surface water results
Summary for Shannon Katka				
	1.75		\$275.63	

### Siobhan Sloan-Evans

Date	Hours	Rate	Extended	Notes
11/1/2013	0.50	115.50	\$57.75	revised summary of potential COCs for surface water
11/5/2013	0.50	115.50	\$57.75	Support to Lisa Saban regarding potential COCs for surface water
Summary for Siobhan Sloan-Evans				
	1.00		\$115.50	
<b>Summary for Task 47 FS Support</b>				
	<b>27.50</b>		<b>\$4,142.25</b>	

## Task 48 RI Support

### Lisa Saban

Date	Hours	Rate	Extended	Notes
11/15/2013	2.00	168.00	\$336.00	prepping for upcoming ri meeting
11/20/2013	1.00	168.00	\$168.00	check in on schedule and tasks.
11/25/2013	1.00	168.00	\$168.00	status call
Summary for Lisa Saban				
	4.00		\$672.00	
<b>Summary for Task 48 RI Support</b>				
	<b>4.00</b>		<b>\$672.00</b>	
<b>Summary for Passaic RI</b>				
	<b>1,325.25</b>		<b>\$180,726.00</b>	

# PASSAIC RI/FS - PER DIEM TRACKING

## Task 32.2

### November 2013 Invoice

John Toll	
Friday, November 01, 2013	
Saturday, November 02, 2013	
Sunday, November 03, 2013	
Monday, November 04, 2013	
Tuesday, November 05, 2013	175.75
Wednesday, November 06, 2013	191.00
Thursday, November 07, 2013	45.75
Friday, November 08, 2013	
Saturday, November 09, 2013	
Sunday, November 10, 2013	
Monday, November 11, 2013	
Tuesday, November 12, 2013	
Wednesday, November 13, 2013	
Thursday, November 14, 2013	175.75
Friday, November 15, 2013	45.75
Saturday, November 16, 2013	
Sunday, November 17, 2013	
<b>TOTAL</b>	<b>634.00</b>

## Purchase Receipts

**HIGHTAIL**

Passail 11

Receipt

## Billed To:

karent@windwardenv.com  
Karen Tobiason  
200 W Mercer St  
Suite 401  
Seattle, WA 98119  
United States of America

Receipt Date: Nov 5, 2013

Order Total: \$69.99

Item Number	Description	Price
1	Pro Account	\$69.99

Sales Tax: \$0.00

Order Total: \$69.99

*Please retain this receipt for your records.*

Language English ▼

Contact Sales 1 (866) 558-7363

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Facebook Twitter LinkedIn (<http://www.linkedin.com/company/39946?trk=tyah>) Vimeo Google+

© Hightail Inc. 2013

P.S. You look great today.

## Heidi Enders

**From:** John Toll  
**Sent:** Wednesday, November 06, 2013 7:36 AM  
**To:** Heidi Enders  
**Subject:** FW: Here's your Gogo Receipt - Check out your Purchase Details!

Hi Heidi. This credit card expense gets billed to Passaic Task 32.2. John

**From:** Gogo [mailto:gogo@e.gogoair.com]  
**Sent:** Tuesday, November 05, 2013 3:54 PM  
**To:** John Toll  
**Subject:** Here's your Gogo Receipt - Check out your Purchase Details!

Purchase Details - Order #70110223TPPRDAS  
To ensure you receive emails from Gogo, add [gogo@e.gogoair.com](mailto:gogo@e.gogoair.com) to your email address book.

Mobile device | Web browser

[My Account](#) | [Contact Us](#)



## What a classy purchase

Thanks for your purchase! You can view your purchase history at any time by visiting [My Account](#).

### Receipt Info

Order #: 70110223TPPRDAS  
Date: 11/5/2013 CT

Product	Quantity	Price
Gogo 1-Hour Pass	1	\$7.50

### Payment Info

Payment Type: VISA  
Payment Info: 1219

**Total: \$7.50**

### How to get online, in air.



Turn on your Wifi enabled device



Connect to the "GogoInflight" network



Launch your browser and sign in to Gogo

0-713 02/15 Cab to  
Seatac  
credit card receipt

P30-SEATTLE WA  
34706 00359  
005 00201 0995

DATE	11/5/12	CLERK
AUTHORIZATION		SERVER
REFERENCE NO.		
Passaic 32.2		
5354253		

RETAIN FOR  
YOUR RECORDS

QTY.	DESCRIPTION	AMOUNT
		53.60
SALES SLIP	TAX	1
	TIP	10.00
	MISC.	
	TOTAL	65.60

CUSTOMER  
COPY

PURCHASER SIGN HERE

X

Cardholder acknowledges receipt of goods and/or services in the amount of the Total shown hereon and agrees to perform the obligations set forth in the Cardholder's agreement with the issuer.

**NJ TRANSIT**  
The Way To Go.

Passaic 32.2  
Toll cc receipt

### RECEIPT

11/07/13 15:04

NJ TRANSIT Rail

1 ADULT One Way  
\*\*NWK\*\* \*\*EWR\*\*  
SERIAL NR : 02106  
FARE : \$8.25

TOTAL : \$8.25 ✓

PAYMENT : Credit-VI  
AMOUNT : \$8.25  
MERCHANT : 04001280007  
TRANS. ID : 028-0104515311  
ACCT NO : XXXXXXXXXXXX9479  
NAME : TOLL/JOHN  
AUTH NO : 021762

128 \*\*NWK\*\*

### PASSENGER RECEIPT

Destination	Hampton Inn
Date	11/5/13
Total	34.00
CARD CHARGED TAXIPASS TOTAL PLUS VOUCHER FEE OF \$5.50. FEE WILL BE AUTOMATICALLY ADDED.	
UNTIL VOUCHER IS REDEEMED BY DRIVER, A TEMPORARY HOLD OF \$150 MAY APPLY.	
Passaic <b>KKP3.13</b> (Toll) contact.taxipass.com	

\$39.50

## Heidi Enders

**From:** John Toll  
**Sent:** Wednesday, October 30, 2013 9:54 AM  
**To:** Heidi Enders  
**Subject:** FW: united.com reservation for New York/Newark, NJ (EWR - Liberty)

Hi Heidi. This gets billed to Passaic Task 32.2. John

**From:** United Airlines, Inc. [mailto:unitedairlines@united.com]  
**Sent:** Wednesday, October 30, 2013 9:39 AM  
**To:** John Toll  
**Subject:** united.com reservation for New York/Newark, NJ (EWR - Liberty)

Add [unitedairlines@united.com](mailto:unitedairlines@united.com) to your address book. See instructions.



Wed., Oct. 30, 2013

[united.com](#) | [Deals & Offers](#) | [Reservations](#) | [Earn MileagePlus® Miles](#) | [My Account](#)

### Thank you for choosing United Airlines.



We are processing your reservation and will send you a confirmation email once this is completed. This process usually takes less than an hour; however, in rare cases it could take longer. Your reservation will remain confirmed during the processing period, and it's not necessary to contact us unless you are traveling within 24 hours.

As a reminder, you can [manage your reservation](#) at [united.com](#), including:

- Purchasing additional products and services to improve your travel experience
- Viewing or changing seat assignments
- Changing your flight
- Checking-in (within 24 hours)
- Booking a car or hotel
- Printing additional receipts, and more

If you do not receive your receipt within three hours, [please contact us](#).



#### Flight Summary

Confirmation Number:

E6K2EQ



Wed., Nov. 13,  
2013

| Portland, OR (PDX) to New York/Newark, NJ (EWR - Liberty)

[Manage my reservation >](#)

View full trip details, seat assignments and printable receipts.



## Traveler Details

John Edward Toll

Seats: PDX - EWR: 4B



New York/Newark Hotels

[Book now](#)

Protect your  
travel investment.

Find peace  
of mind with  
Trip Insurance.

[Learn more >](#)

Find low fares  
for fantastic  
destinations

Let our Special  
Offers page help.

[View offers >](#)



## Ticket Price Details

1 Adults (age 18 to 64)

\$461.00

Additional Taxes/Fees

\$10.90

**Total Fare**

**\$471.90**

[Manage my reservation](#)

**Hertz. AVIS**

Book with our preferred car partners

- Save up to 35% off
- Earn 75 reward miles/day
- Earn 150 bonus reward miles when booking on united.com
- Choose [Hertz®](#) or [Avis®](#)

Total Fare: \$471.90/UAUP14NR

## Additional Trip Planning Tools

- [Baggage Policies](#): View current baggage acceptance allowances.
- [New York, NY Destination Guide](#): Download a complete travel guide.

## Important Baggage Information

### Carry-on baggage allowed

United accepts the following items, per customer to be carried on the aircraft at no charge:

- One carry-on bag no more than 45 linear inches or 114 linear centimeters (L + W + H) or 14 inches x 9 inches x 22 inches (23 x 35 x 56 cm)
- One personal item (such as a shoulder or laptop bag).

[Learn more about carry-on baggage policy](#)

### Checking bags for this itinerary

Checked baggage service charges are collected at any point in the itinerary where bags are checked. The bag service charges below reflect a maximum outside linear dimension of 62 linear inches (157 cm)

First and second baggage service charges per traveler as listed below:

Wed., Nov. 13, 2013

Portland, OR (PDX) to New York/Newark, NJ (EWR - Liberty)

1st bag

\$0

2nd bag

\$0

Weight per bag

70.0 lbs (32 kgs)

## Heidi Enders

---

**From:** John Toll  
**Sent:** Friday, November 08, 2013 7:58 AM  
**To:** Heidi Enders  
**Subject:** Fwd: Receipt from Yellow Cab Seattle #514 for \$63.37

Hi Heidi. This gets billed to Passaic Task 32.2. John

Begin forwarded message:

**From:** Square <noreply@messaging.squareup.com>  
**Date:** November 7, 2013 at 10:58:03 PM PST  
**To:** John Toll <JohnT@windwardenv.com>  
**Subject:** Receipt from Yellow Cab Seattle #514 for \$63.37

[Trouble viewing this email?](#)

Nov 7, 2013 at 10:57pm

Receipt  
#W299

Custom Amount	\$55.10
Tip	\$8.27

<b>Total</b>	<b>\$63.37</b>
--------------	----------------



9479

\$63.37



## Invoice Number

2-474-60170

## Invoice Date

Nov 22, 2013

## Account Number

2465-9307-8

4 of 6

## FedEx Express Shipment Detail By Payor Type (Original)

Dropped off: Oct 31, 2013

Cust. Ref.: NO REFERENCE INFORMATION

Ref.#2:

Payor: Shipper

Ref.#3: Passaic 39.4

- The Earned Discount for this ship date has been calculated based on a revenue threshold of \$ 1091.47
- Fuel Surcharge - FedEx has applied a fuel surcharge of 10.50% to this shipment.
- Distance Based Pricing, Zone 6

Automation USAB  
Tracking ID 802007025849  
Service Type FedEx Express Saver  
Package Type FedEx Envelope  
Zone 06  
Packages 1  
Rated Weight N/A  
Delivered Nov 05, 2013 13:08  
Svc Area A1  
Signed by M.KILL  
FedEx Use 030456036/0000833/\_

**Sender**  
WINDWARD ENVIRONMENTAL LL  
WINDWARD ENVIRONMENTAL LLC  
200 W MERCER ST STE 401  
SEATTLE WA 98119-3958 US

**Recipient**  
MARK KILL  
DDMS  
1217 BANDONA BLVD N  
SAINT PAUL MN 55108 US

Transportation Charge  
Direct Signature  
Earned Discount  
Fuel Surcharge  
**Total Charge**

14.15  
3.50  
-1.98  
1.28  
**\$16.95**

USD

Dropped off: Oct 31, 2013

Cust. Ref.: NO REFERENCE INFORMATION

Ref.#2:

Payor: Shipper

Ref.#3: Passaic 39.4

- The Earned Discount for this ship date has been calculated based on a revenue threshold of \$ 1091.47
- Fuel Surcharge - FedEx has applied a fuel surcharge of 10.50% to this shipment.
- Distance Based Pricing, Zone 8

Automation USAB  
Tracking ID 802007025850  
Service Type FedEx Standard Overnight  
Package Type FedEx Envelope  
Zone 08  
Packages 1  
Rated Weight N/A  
Delivered Nov 01, 2013 09:33  
Svc Area A1  
Signed by C.MCGAY  
FedEx Use 030456036/0000266/\_

**Sender**  
WINDWARD ENVIRONMENTAL LL  
WINDWARD ENVIRONMENTAL LLC  
200 W MERCER ST STE 401  
SEATTLE WA 98119-3958 US

**Recipient**  
SHARONBUDNEY  
CDM SMITH  
110 FIDLECREST AVE 6THFL  
EDISON NJ 08837 US

Transportation Charge  
Earned Discount  
Fuel Surcharge  
Direct Signature  
**Total Charge**

31.45  
-6.29  
2.64  
3.50  
**\$31.30**

USD

Credit Passaic

**Heidi Enders**

---

**From:** Lisa Saban  
**Sent:** Monday, November 04, 2013 10:58 AM  
**To:** Heidi Enders; Chris Nelson  
**Subject:** FW: Canceled Reservation: Your 11/05/13 Trip

Can you all make sure Passaic is not charged for this trip; or if they were charged, that they are credited.  
Task 45.0. Thanks

-----Original Message-----

From: Alaska Airlines <[Alaska.Web@AlaskaAir.com](mailto:Alaska.Web@AlaskaAir.com)> [<mailto:Alaska.Web@AlaskaAir.com>]  
Sent: Monday, November 04, 2013 10:33 AM  
To: Lisa Saban  
Subject: Canceled Reservation: Your 11/05/13 Trip

Purchased Reservation Cancellation.  
November 4, 2013

Thank you for using alaskaair.com. The following reservation has been canceled and refunded to original form of payment.

**TRAVELERS - TICKET NUMBERS**

Lisa Saban - 0272132881506  
David Johns - 0272132881507

Confirmation Code: OIRMVH

**ITINERARY**

Tuesday, November 05, 2013  
Alaska #8  
Depart: Seattle (SEA) at 9:05 AM  
Arrive: Newark-Newark Intl. (EWR)

Thursday, November 07, 2013  
Alaska #5  
Depart: Newark-Newark Intl. (EWR) at 6:25 PM  
Arrive: Seattle (SEA)

**FARE SUMMARY (USD)**

Base: \$3002.80 Taxes: \$268.80 Total: \$3271.60

credit

Shop for new flight reservations now.  
<http://www.alaskaair.com/planbook>

This is an auto-generated email. If you have any questions, please call Alaska Airlines at 1-800-ALASKAAIR (1-800-252-7522).

Thanks again!

User: Lisa Saban

Confirmation #: 20040204311975

Time Zone: Eastern Time

Conference ID: 9525789

Conference Billing Code: N/A

<u>Call Start</u>	<u>Type</u>	<u>Caller</u>	<u>User</u>	<u>Billing Code / Caller Name</u>	<u>Mins</u>	<u>Charge</u>	<u>Taxes/Fees</u>	<u>Total</u>
10/11 4:02:13 PM	Res-DI (D)	3608714397	Part		79	\$7.9000	\$1.7064	\$9.6064
10/11 4:02:25 PM	Res-DI (D)	5099963566	Part		78	\$7.8000	\$1.6848	\$9.4848
10/11 4:04:19 PM	Res-DI (D)	2063105515	Part		73	\$7.3000	\$1.5768	\$8.8768
10/11 4:06:23 PM	Res-DI (D)	2063781364	Part		74	\$7.4000	\$1.5984	\$8.9984
					304	\$30.4000	\$6.5664	\$36.9664

*\$70.77*

Conference ID: 9558735

Conference Billing Code: N/A

<u>Call Start</u>	<u>Type</u>	<u>Caller</u>	<u>User</u>	<u>Billing Code / Caller Name</u>	<u>Mins</u>	<u>Charge</u>	<u>Taxes/Fees</u>	<u>Total</u>
10/17 5:00:32 PM	Res-DI (D)	2063996095	Part		91	\$9.1000	\$1.9656	\$11.0656
10/17 5:00:38 PM	Res-DI (D)	2069575960	Part		91	\$9.1000	\$1.9656	\$11.0656
10/17 5:02:04 PM	Res-DI (D)	2063781364	Part		89	\$8.9000	\$1.9224	\$10.8224
					271	\$27.1000	\$5.8536	\$32.9536

*Task 45.0*

Conference ID: 9582683

Conference Billing Code: N/A

<u>Call Start</u>	<u>Type</u>	<u>Caller</u>	<u>User</u>	<u>Billing Code / Caller Name</u>	<u>Mins</u>	<u>Charge</u>	<u>Taxes/Fees</u>	<u>Total</u>
10/22 4:26:56 PM	Res-DI (D)	2063781364	Chair		7	\$0.7000	\$0.1512	\$0.8512
					7	\$0.7000	\$0.1512	\$0.8512

## Heidi Enders

---

**From:** Shana Schorsch  
**Sent:** Tuesday, October 22, 2013 3:41 PM  
**To:** Heidi Enders  
**Cc:** Matt Luxon  
**Subject:** FW: Pay Per View Order Receipt

Another one.

Passaic 45.7

Shana Schorsch, Editor  
200 W. Mercer Street, Suite 401 | Seattle, WA 98119 Direct line: 206-812-5412  
[shanas@windwardenv.com](mailto:shanas@windwardenv.com) | [www.windwardenv.com](http://www.windwardenv.com)

P please don't print this e-mail unless you really need to

-----Original Message-----

**From:** Wiley Online Library [<mailto:WileyOnlineLibrary@wiley.com>]  
**Sent:** Tuesday, October 22, 2013 3:39 PM  
**To:** Shana Schorsch  
**Subject:** Pay Per View Order Receipt

Dear Matthew Luxon,

Thank you for your purchase with Wiley Online Library.

\*\*\*\*\*

### YOUR BILLING INFORMATION

\*\*\*\*\*

E-mail Address: [shanas@windwardenv.com](mailto:shanas@windwardenv.com)  
Billing Address: 200 West Mercer Street  
Suite 401  
Seattle  
WA  
98119  
840

Purchase Total: \$ 35.00

\*\*\*\*\*

### YOUR ORDER DETAILS

\*\*\*\*\*

Order Number: 146918573

24 Hour Online Access: \$ 35.00  
Discount Applied: -\$ 0.00  
Sales Tax: \$ 0.00

=====  
Total for this Order: \$ 35.00

ITEM:

Longitudinal patterns in flathead catfish relative abundance and length at age within a large river: effects of an urban gradient† River Research and Applications Volume 25, Issue 7, September 2009, Pages: 861–873, Craig P. Paukert Andrew S. Makinster Published Online : 6 MAY 2008 12:00AM EST, DOI : 10.1002/rra.1089

You now have 24 hours to access this content online. To view or download your document, go to:  
<http://onlinelibrary.wiley.com/doi/10.1002/rra.1089/abstract>  
and click the Full Text link (PDF or HTML).

\*\*\*\*\*

If you have any questions about this order please contact Wiley Online Library Customer Support:  
<http://onlinelibrary.custhelp.com>

This is an automated e-mail response. Please do not reply to this message.  
\*\*\*\*\*

Thank you again for your order with Wiley Online Library.

-----  
Wiley Online Library is the dynamic online content service from John Wiley & Sons.  
<http://onlinelibrary.wiley.com>

## Heidi Enders


---

**From:** Shana Schorsch  
**Sent:** Wednesday, October 23, 2013 8:21 AM  
**To:** Heidi Enders  
**Cc:** Matt Luxon  
**Subject:** FW: Your payment to ITHAKA

45.7

**Shana Schorsch, Editor**  
200 W. Mercer Street, Suite 401 | Seattle, WA 98119  
Direct line: 206-812-5412  
[shanas@windwardenv.com](mailto:shanas@windwardenv.com) | [www.windwardenv.com](http://www.windwardenv.com)



 please don't print this e-mail unless you really need to

**From:** [service@paypal.com](mailto:service@paypal.com) [<mailto:service@paypal.com>]  
**Sent:** Wednesday, October 23, 2013 8:21 AM  
**To:** Shana Schorsch  
**Subject:** Your payment to ITHAKA



You sent a payment of \$26.00 USD to  
ITHAKA.

Hello Matthew Luxon,

This charge will appear on your credit card statement as payment to PAYPAL \*JSTOR.

Oct 23, 2013 08:20:37 PDT  
Receipt No:4369-0728-5566-6257

### Save time with a PayPal account

Create a PayPal account and save your payment information. You won't need to enter your payment information every time you shop online.

[Sign Up Now](#)

### ? Did you know?

**Your Purchase is not eligible for PayPal Purchase Protection.**

When you pay with your PayPal account your eligible purchases are protected.

[Learn More →](#)

**Merchant information:**

ITHAKA  
[support@jstor.org](mailto:support@jstor.org)  
212-500-2600

**Instructions to merchant:**

None provided

**Shipping information**

Matthew Luxon  
200 West Mercer Street  
Suite 401  
Seattle, WA 98119  
United States

**Shipping method**

Not specified

Description	Unit price	Qty	Amount
JSTOR	\$26.00 USD	1	\$26.00 USD

**Total:** \$26.00 USD

**Receipt No: 4369-0728-5566-6257**

Please keep this receipt number for future reference. You'll need it if you contact customer service at ITHAKA or PayPal.

**Invoice ID:**1610921

[Help Center](#) | [Security Center](#)

Please don't reply to this email. It'll just confuse the computer that sent it and you won't get a response.

Copyright © 2013 PayPal, Inc. All rights reserved. PayPal is located at 2211 N. First St., San Jose, CA 95131.

PayPal Email ID PP1469

## Heidi Enders

---

**From:** Shana Schorsch  
**Sent:** Tuesday, October 22, 2013 3:24 PM  
**To:** Heidi Enders  
**Cc:** Matt Luxon  
**Subject:** FW: springer.com - Your order receipt

*Passaid 45.7*

Figured I should probably send you this receipt, which will come through on Matt's card.


**Shana Schorsch, Editor**

200 W. Mercer Street, Suite 401 | Seattle, WA 98119

Direct line: 206-812-5412

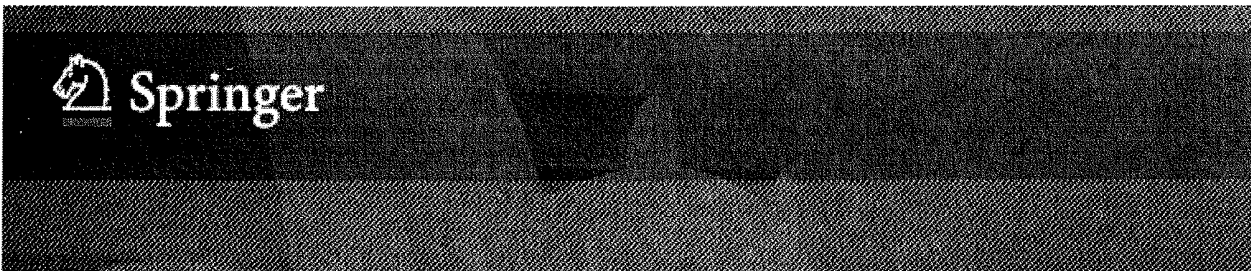
[shanas@windwardenv.com](mailto:shanas@windwardenv.com) | [www.windwardenv.com](http://www.windwardenv.com)



 please don't print this e-mail unless you really need to

---

**From:** Springer [mailto:orders@springeronline.com]  
**Sent:** Tuesday, October 22, 2013 3:07 PM  
**To:** Shana Schorsch  
**Subject:** springer.com - Your order receipt



*Your Order*

23.10.2013

visit us at [springer.com](http://springer.com)

---

Thank you

---

Dear Springer Customer,

Thank you for shopping at springer.com.

---

Your ordered Products

---

**A Longitudinal Assessment of the Aquatic Macroinvertebrate Community in the  
Channelized Lower Missouri River**



Article

Barry C. Poulton, Mark L. Wildhaber, Collette S. Charbonneau, et al.

DOI 10.1023/A:1023301016001

Journal: Environmental Monitoring and Assessment

[DOWNLOAD PDF](#) (valid for 48 hours)

Quantity 1

Single Sales Price (gross) \$42.55

tax rate 6.5% \$2.60

**Subtotal \$42.55**

Products Total \$42.55

**Total \$42.55**

## Order Details

### Billing to

Shana Schorsch  
200 West Mercer Street 401  
98119 Seattle  
USA

### Your method of payment

VISA

### Shipping and Handling

### Order No

180691578

### WorldPay No

990000180691579

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